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*PL 480
OTS 61-11437

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ACSIL 994

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Sci - Physics
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A. N. Zaidel, A. A. Petrov, 15 pp.

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Sci - Physics

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AEC/AERE Tr 923

Sci - Phys

May 63

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Luminescence Decay Time of Colour Centres in
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Tishchenko.

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ABC NP-TR-1566

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OF A DIRECT EXPERIMENT PROVING THAT THE
VELOCITY OF LIGHT IS INDEPENDENT OF THE
VELOCITY OF A SOURCE OF RADIATION (K Vop-
rosu ob Obrabotku Rezul'tatov Pryanogo Opyta po
Proverke Nezavisimosti Skorosti Sveta ot Skorosti
Istochnika Izlucheniya) tr. by J. Hardy. [1962] [6]p.
(foreign text included). 3 refs. [CSIRO] Trans. 5703.
Order from OTS or SLA \$1.10 62-23722

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 1, p. 141-142.

DESCRIPTORS: *Light, Velocity, Sources, Probability,
*Relativity theory.

An analysis of previous experimental results (Doklady
Akad. Nauk SSSR 109: 481, 1956 and Optika i Spektro-
skopiya 1: 113, 1956) shows that the probability that
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- I. Bonch-Bruyevich, A. M.
- II. CSIRO Trans-5703
- III. Commonwealth Scientific
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On the Basic Electron State of Oxides of Molecules
of Group II Elements, by I. V. Veits, L. V.
Gurvich, 14 pp.

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Sci - Phys
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OTS 62-10114
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Tolstol, N. A.
KINETICS OF INFRARED LUMINESCENCE OF COP-
PER OXIDE. II. THEORETICAL INTERPRETATION,
tr. by B. W. Kuvshinov, 27 Aug 62, 16p. 7 refs.
APL/JHU TG 230-T326,
Order from OTS \$0.50

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Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 2, p. 210-219.

DESCRIPTORS: *Copper compounds, Oxides, *Infrared
radiation, *Luminescence, Theory, Photoconductivity.

Three possible interpretations are discussed of the
anomalous time-temperature increase in the relaxation
of Cu₂O luminescence: (1) the effect of temperature on
mobility, (2) the effect of the "heat barrier," and (3)
the exciton mechanism of luminescence. The last is
considered to be the most likely. (Author)
(Physics, TT, v. 9, no. 3)

- I. Tolstol, N. A.
- II. Title: Theoretical ...
- III. APL/JHU TG-230-T326
- IV. Applied Physics Lab.,
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Met: Methods of Investigation of Relocation
Processes and Transport Systems in Chemical
Processes, by Ch. B. Lushchik, U. S.

RUSSIAN, Part, Optimal i. Harkovskaya, 1977,
Vol. II, No. 2, pp 223-228.

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Calculation of a Thin Multilayer Plate and a One-
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SIA 59-20505

Sci
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Vol 2, No 12

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The Analytical Theory of Optical Properties of
Multi-Layer Dielectric Coatings, by P. G. Kard, 15 p.

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No 3, pp 236-254.

SMA 59-20506

SUB 62-10711

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Vol. 2, No. 12

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Kard, P. G.
THEORY OF MULTILAYER COATINGS ON LENSES
FOR INCREASING THE TRANSMITTANCE OF LIGHT
[1962] 12p. 1 ref.
Order from OTS or SLA \$1.60

62-10986

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 2, p. 245-253.

DESCRIPTORS: *Coatings, *Dielectric films, *Optics,
Light transmission, Reflection, Penetration, *Lenses.

The previous theory (Optika i Spektroskopiya 2: 236-244,
1957; available in translation from OTS or SLA \$1.10
as 62-10971) is used for calculating multilayer coatings
for increasing the light transmittance of a lens. New
simple formulas are derived and a graph is suggested.
An optimum composition for 2-, 3-, and 4-layer
coatings, which promote light transmittance over the
(Physics--Optics, TT, v. 8, no. 5)
(over)

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I. Kard, P. G.

Office of Technical Services

Krylova, T. N. and Sokolova, R. S.
ACHROMATIC REFLECTION-REDUCING FILMS.
1961, 8p.

Order from CTT \$16.00

CTT-61P101

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2
[no. 2] p. 251-252

DESCRIPTORS: *Photographic film, Films, Reflection, Reduction, Materials.

(Materials--Photographic, TT, v. 7, no. 12)

62-12978

- I. Title: Achromatic film
- I. Krylova, T. N.
- II. Sokolova, R. S.
- III. CTT-61P101
- IV. Columbia Technical
Translations, White
Plains, N. Y.

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Reflection of Light from a Liquid Surface and
Its Connection with the Process of Crystallization
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RUSSIAN, PART, Optika i Spektroskopiya, 1957,
Vol. II, No. 2, pp 263-268.

SLA 59-20362

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English Title Unknown, by P. A. Teplyakov.
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NLL REF: 5413.2835 (MUL-tr-95)

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Aug 68

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Sci - Phys

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Lines in the Positive Column of the Discharge.
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of Ion Producers, by Yu. M. Kagan, V. I. Perel,
10 pp.

RUSSIAN, par, Optika i Spektroskopiya, Vol II,
1957, pp 298-303.

ABC NP-70

Sci-Tec Files

Dec 58

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Absorption Spectra of Benzene Crystals at
200 μ K, by V. L. Erande, V. S. Medvedev,
10 pp.

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The Effect of Deformation on the Spectra of
Crystals, by V. L. Browde, O. S. Fakhomova, A. P.
Prikhovko, 8 pp.

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Optical Properties of Crystals and Radicals. Optical Surfaces, by P. I. Fedorov.

pp 361-470.

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MIT Lincoln Lab

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Effect of the Solvent on the Fluorescence and
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ATS RI-4057

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pp 417-420.

AEC CEA Tr R375

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Feb 59

Analysis of Halogens in Non-Volatile Oxides, by M. P.
Chaila, 14 pp.

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pp 421-425.

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Dependence of the Luminescence Yield of Plastic
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ture, by I. N. Rozina, 11 pp.

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Optics of Magnetic Crystals. III. Uniaxial and
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pp 480-487.

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I. M. Reunov, 8 pp.

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AEC Tr 3571

Sci - Phys

May 89

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Some Problems Of Spectrophotometry Of Light-
scattering Media by A.P. Ivanov.

RUSSIAN, per, Optika I Spektroskopiya, Vol II,
No 4, 1957, 524-529.

CSIRO Tr 4096

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Device for Observing Anomalous Dispersion in
Rapid Processes, by A. M. Shikhtin, V. S. Egorov.

RUSSIAN, per, Optika i Spektroskopiya, Vol II,
No 4, 1957, pp 543-544.

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Sci .. Rngr
Aug 63

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The Structure of Absorption Bands of Liquid H_2O ,
 D_2O and HDO Determined by the Structure of their
Molecules, by N. O. Bulanin, 11 pp.

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C. C. P.
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Theory of Impurity Light Absorption in Molecular Crystals by E. I. Rashba, 12 pp.

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Sci - Phys
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Structure of Alkali-Halide Phosphors
and Mechanism of Luminescence Process;
by L. M. Shamovsky, et al, 6 pp.

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Sci - Chem
Nov 61

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Atomic Absorption and Luminescence Centers in
Alkali Metal Halide Phosphors Activated by Heavy
Metal Ions and Their Formation Under the Effect
of Hard Radiation, by M. L. Kats.
RUSSIAN, per, Optika i Spektroskopiya,
Vol 3, No 6, 1957, pp 602-609.
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Nov 68

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Electrophotometric Investigations of Night Sky
Brightness, by S. F. Rodionov, 16 pp. UNCLASSIFIED

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No 5, Leningrad, May 1957, pp 606-615.

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TT-62-28870

Shklyarevskii, I.N. and Ryazanov, A.N.
DISPERSION DE LA SAUTÉ DE PHASE DES PELLICU-
LES MINCES D'ALUMINIUM (Dispersion of the Phase
Jump in Thin Aluminum Films). 14p. 13 refs.
CNRS-XVIII 62.
Order from OTS, ETC. or CNRS \$1.60 TT-62-28870

Trans. in French of Optika i Spektroskopiya (USSR)
1957, v.2, no.5, p.645-650.

DESCRIPTORS: *Metal films, Aluminum, Zinc com-
pounds, Sulfides, Phase studies, Spectroscopy.

(Physics -- Spectroscopy, TT, v. 11, no. 9)

I. Shklyarevskii, I.N.
II. Ryazanov, A.N.
III. CNRS-XVIII 62
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Double Refraction of Fluoride Films,
by K. D. Sineinikov, et al, 6 pp.

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New Method of Exciting Spectra in an Atomic Beam
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1957, pp 669-671.

AEC Tr 3508

Sci - Nuc Phys
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Relative Quantities of the Principal Terms of the
Diffusion and Cutting Series AL 1, by Yu. I. Ostrovski.

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Lisitsa, M. P. and Tsvolykh, N. G.
OPTIQUE DES COUCHES FINES. DEPHASAGE DANS
LA REFLEXION DE LA LUMIERE PAR LES COUCHES
MINCES D'ARGENT, DE GERMANIUM DE TELLURE
ET DE SELENIUM (Optics of Thin Films. Dephasing
in the Reflection of Light by Thin Films of Silver,
Germanium, Tellurium, and Selenium) tr. by
M. B. De Trezinsky. 28 Dec 59 [8]p. 15 refs. CEA
Trans. no. R 794 (text in French).
Order from OTS or SLA \$1.10

61-23770

Trans. of Optika i Spektroskopiya (USSR) 1957, v. 2,
no. 5, p. 674-676.

DESCRIPTORS: *Thin films, *Optics, USSR, Phase
studies, Light transmission, Reflection, Silver,
Germanium, Tellurium, Selenium, Metal films.

(Physics--Optics, TT, v. 6, no. 6)

- I. Lisitsa, M. P.
- II. Tsvolykh, N. G.
- III. CEA-tr-R794
- IV. Commissariat à l'Energie
Atomique (France)

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On Concentrations of Excited Atoms of Neon in
a Discharge in a Hollow Cathode, by I. P.

Bogdanova and Chen Gi-Tshak.

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Vol 2 No 6, pp 681-688.

NLL RPS 2456 (On Loan or Purchase)

C.FSTI TT 64-19965

Aug 65

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Absorption Spectra of Crystals of Plutonium Salts,
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AEC Tr 3716

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No 6, 1977, pp 710-716.

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TT-63-23706

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Grafika pri Spektral'nom Analize Redkozemel'nykh
Elementov po Metodu Dobavok). [1963] [9p] 7 refs
Order from CTS, SLA, or ETC \$1.10 TT-63-23706

I. Aldimov, A. I.
II. Scripta Technica, Inc.,
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Trans. of Optika i Spektroskopiya (USSR) 1957, v. 3,
no. 3, p. 286-293.

DESCRIPTORS: *Infrared spectroscopy, *Diffraction
gratings, Vacuum apparatus, Monochromatic light,
Resolution, Design, Optics, Reflection, Water vapor,
Carbon compounds, Monoxides, Absorption spectra,
*Optical spectrometers.

On the basis of a diffraction grating monochromator, a
device was constructed for investigating the infrared
spectrum in the region 0.7 to 3 microns with a resolu-
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